analytics environmental laboratory LLC

195 Commerce Way Suite E
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906
www.analyticslab.com

Ms. Nina Anderson
Inspectorate America Corporation
12000 Aerospace Ave, Suite 200
Houston TX 77034-5576

Report Number: 69464

Revision: Rev. 0

Re: Sprague Energy (Project No: 4101-11-01)

Enclosed are the results of the analyses on your sample(s). Samples were received on 05 April 2011 and analyzed for the tests listed. Samples were received in acceptable condition, with the exceptions noted below or on the chain of custody. These results pertain to samples as received by the laboratory and for the analytical tests requested on the chain of custody. The results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report. Please see individual reports for specific methodologies and references.

Lab Number	Sample Date	Station Location	Analysis	Comments
69464-1	04/05/11	2011-020-00311-003	EPA 8260 Volatile Organics	
69464-2	04/05/11	2011-020-00311-006	EPA 8260 Volatile Organics	
69464-3	04/05/11	2011-020-00311-008	Electronic Data Deliverable	
	04/05/11	2011-020-00311-008	EPA 8260 Volatile Organics	

Sample Receipt Exceptions: None

Analytics Environmental Laboratory is certified by the states of New Hampshire, Maine, Massachusetts, Connecticut, Rhode Island, Virginia, Maryland, and is accredited by the Deparment of Defense (DOD) ELAP program. A list of actual certified parameters is available upon request.

If you have any questions on these results, please do not hesitate to contact us.

Authorized signature 

Stephen L. Knollmeyer Lab. Director

Date 04/14/2011

analytics environmental laboratory LLC

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April 12, 2011

CLIENT SAMPLE ID

Project Name: Sprague Energy

Project Number: 4101-11-01

Field Sample ID: 2011-020-00311-003

SAMPLE DATA

Lab Sample ID: 69464-1
Matrix: Solid
Percent Solid: 100
Dilution Factor: 91
Collection Date: 04/05/11
Lab Receipt Date: 04/05/11
Analysis Date: 04/08/11

ANALYTICAL RESULTS VOLATILE ORGANICS

COMPOUND	Limit of Detection (LOD) µg/kg	Limit of Quantitation (LOQ) µg/kg	Result µg/kg	COMPOUND	Limit of Detection (LOD) µg/kg	Limit of Quantitation (LOQ) µg/kg	Result µg/kg
Chloroethane	46	91	U	1,1-Dichloroethane	46	91	U
Chloroform	46	69	U	1,1-Dichloroethene	46	69	U
Chloromethane	46	91	U	1,1-Dichloropropene	46	91	U
cis-1,2-Dichloroethene	46	91	U	1,2,3-Trichlorobenzene	46	91	U
cis-1,3-Dichloropropene	46	91	U	1,2,3-Trichloropropane	46	91	U
Dibromochloromethane	46	69	U	1,2,4-Trichlorobenzene	46	91	U
Dibromomethane	46	91	U	1,2,4-Trimethylbenzene	46	91	**72 J**
Dichlorodifluoromethane	46	91	U	1,2-Dibromo-3-chloropropane	46	91	U
Ethylbenzene	46	91	U	1,2-Dibromoethane	46	69	U
Freon-113	46	91	U	1,2-Dichlorobenzene	46	91	U
Hexachlorobutadiene	46	91	U	1,2-Dichloroethane	46	69	U
Isopropl benzene	46	91	U	1,2-Dichloropropane	46	69	U
m,p-Xylene	46	91	**93**	1,3,5-Trimethylbenzene	46	91	U
Methyl-tert-butyl ether (MTBE)	46	69	U	1,3-Dichlorobenzene	46	91	U
Methylene chloride	229	457	U	1,3-Dichloropropane	46	91	U
Naphthalene	46	91	U	1,4-Dichlorobenzene	46	91	U
n-Butylbenzene	46	91	U	2,2-Dichloropropane	46	91	U
n-Propylbenzene	46	91	U	Methyl ethyl ketone	457	914	U
o-Xylene	46	91	U	2-Chlorotoluene	46	91	U
sec-Butylbenzene	46	91	U	2-Hexanone	457	914	U
Styrene	46	91	U	4-Chlorotoluene	46	91	U
tert-Butylbenzene	46	91	U	4-Isopropyltoluene	46	91	U
Tetrachloroethene	46	91	U	4-Methyl-2-pentanone	457	914	U
Tetrahydrofuran	229	457	U	Acetone	457	914	U
Toluene	46	91	U	Benzene	46	91	U
trans-1,2-Dichloroethene	46	91	U	Bromobenzene	46	91	U
trans-1,3-Dichloropropene	46	91	U	Bromochloromethane	46	91	U
Trichloroethene	46	91	U	Bromodichloromethane	46	69	U
Trichlorofluoromethane	46	91	U	Bromoform	46	69	U
Vinyl chloride	46	91	U	Bromomethane	46	91	U
Xylenes (total)	46	91	U	Carbon Disulfide	46	91	U
1,1,1,2-Tetrachloroethane	46	91	U	Carbon tetrachloride	46	91	U
1,1,1-Trichloroethane	46	91	U	Chlorobenzene	46	91	U
1,1,2,2-Tetrachloroethane	46	69	U	(TIC) n-Heptane	NA	NA	NF
1,1,2-Trichloroethane	46	69	U	(TIC) n-Hexane	NA	NA	NF

Surrogate Standard Recovery

Bromofluorobenzene	90%	d4-1,2-Dichloroethane	90%	d8-Toluene	90%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis was conducted according to: Test Methods for Evaluating Solid Waste, SW-846 Method 8260B. Results between the LOD and LOQ are reported as estimated (J flag). Difficult compounds and laboratory contaminants are not reported below the LOQ

COMMENTS: Results are expressed on a dry weight basis. TIC=Tentatively Identified Compound. NF=Not Found using NIST library search criteria.

set2Column2TierWTICs:Res(0):Rec(0) - Inspectorate_OIL_2Tier_wTICS

Authorized signature

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April 12, 2011

CLIENT SAMPLE ID

Project Name: Sprague Energy

Project Number: 4101-11-01

Field Sample ID: 2011-020-00311-006

SAMPLE DATA

Lab Sample ID: 69464-2
Matrix: Solid
Percent Solid: 100
Dilution Factor: 99
Collection Date: 04/05/11
Lab Receipt Date: 04/05/11
Analysis Date: 04/08/11

ANALYTICAL RESULTS VOLATILE ORGANICS

COMPOUND	Limit of Detection (LOD) µg/kg	Limit of Quantitation (LOQ) µg/kg	Result µg/kg	COMPOUND	Limit of Detection (LOD) µg/kg	Limit of Quantitation (LOQ) µg/kg	Result µg/kg
Chloroethane	49	99	U	1,1-Dichloroethane	49	99	U
Chloroform	49	74	U	1,1-Dichloroethene	49	74	U
Chloromethane	49	99	U	1,1-Dichloropropene	49	99	U
cis-1,2-Dichloroethene	49	99	U	1,2,3-Trichlorobenzene	49	99	U
cis-1,3-Dichloropropene	49	99	U	1,2,3-Trichloropropane	49	99	U
Dibromochloromethane	49	74	U	1,2,4-Trichlorobenzene	49	99	U
Dibromomethane	49	99	U	1,2,4-Trimethylbenzene	49	99	**62 J**
Dichlorodifluoromethane	49	99	U	1,2-Dibromo-3-chloropropane	49	99	U
Ethylbenzene	49	99	U	1,2-Dibromoethane	49	74	U
Freon-113	49	99	U	1,2-Dichlorobenzene	49	99	U
Hexachlorobutadiene	49	99	U	1,2-Dichloroethane	49	74	U
Isopropl benzene	49	99	U	1,2-Dichloropropane	49	74	U
m,p-Xylene	49	99	**84 J**	1,3,5-Trimethylbenzene	49	99	U
Methyl-tert-butyl ether (MTBE)	49	74	U	1,3-Dichlorobenzene	49	99	U
Methylene chloride	247	494	U	1,3-Dichloropropane	49	99	U
Naphthalene	49	99	**83 J**	1,4-Dichlorobenzene	49	99	U
n-Butylbenzene	49	99	U	2,2-Dichloropropane	49	99	U
n-Propylbenzene	49	99	U	Methyl ethyl ketone	494	987	U
o-Xylene	49	99	U	2-Chlorotoluene	49	99	U
sec-Butylbenzene	49	99	U	2-Hexanone	494	987	U
Styrene	49	99	U	4-Chlorotoluene	49	99	U
tert-Butylbenzene	49	99	U	4-Isopropyltoluene	49	99	U
Tetrachloroethene	49	99	U	4-Methyl-2-pentanone	494	987	U
Tetrahydrofuran	247	494	U	Acetone	494	987	U
Toluene	49	99	**57 J**	Benzene	49	99	U
trans-1,2-Dichloroethene	49	99	U	Bromobenzene	49	99	U
trans-1,3-Dichloropropene	49	99	U	Bromochloromethane	49	99	U
Trichloroethene	49	99	U	Bromodichloromethane	49	74	U
Trichlorofluoromethane	49	99	U	Bromoform	49	74	U
Vinyl chloride	49	99	U	Bromomethane	49	99	U
Xylenes (total)	49	99	U	Carbon Disulfide	49	99	U
1,1,1,2-Tetrachloroethane	49	99	U	Carbon tetrachloride	49	99	U
1,1,1-Trichloroethane	49	99	U	Chlorobenzene	49	99	U
1,1,2,2-Tetrachloroethane	49	74	U	(TIC) n-Heptane	NA	NA	NF
1,1,2-Trichloroethane	49	74	U	(TIC) n-Hexane	NA	NA	NF

Surrogate Standard Recovery

Bromofluorobenzene	78%	d4-1,2-Dichloroethane	84%	d8-Toluene	88%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis was conducted according to: Test Methods for Evaluating Solid Waste, SW-846 Method 8260B. Results between the LOD and LOQ are reported as estimated (J flag). Difficult compounds and laboratory contaminants are not reported below the LOQ

COMMENTS: Results are expressed on a dry weight basis. TIC=Tentatively Identified Compound. NF=Not Found using NIST library search criteria.

set2Column2TierWTICs:Res(0):Rec(0) - Inspectorate_OIL_2Tier_wTICS

Authorized signature

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April 12, 2011

CLIENT SAMPLE ID

Project Name: Sprague Energy

Project Number: 4101-11-01

Field Sample ID: 2011-020-00311-008

SAMPLE DATA

Lab Sample ID: 69464-3
Matrix: Solid
Percent Solid: 100
Dilution Factor: 94
Collection Date: 04/05/11
Lab Receipt Date: 04/05/11
Analysis Date: 04/08/11

ANALYTICAL RESULTS VOLATILE ORGANICS

COMPOUND	Limit of Detection (LOD) µg/kg	Limit of Quantitation (LOQ) µg/kg	Result µg/kg	COMPOUND	Limit of Detection (LOD) µg/kg	Limit of Quantitation (LOQ) µg/kg	Result µg/kg
Chloroethane	47	94	U	1,1-Dichloroethane	47	94	U
Chloroform	47	71	U	1,1-Dichloroethene	47	71	U
Chloromethane	47	94	U	1,1-Dichloropropene	47	94	U
cis-1,2-Dichloroethene	47	94	U	1,2,3-Trichlorobenzene	47	94	U
cis-1,3-Dichloropropene	47	94	U	1,2,3-Trichloropropane	47	94	U
Dibromochloromethane	47	71	U	1,2,4-Trichlorobenzene	47	94	U
Dibromomethane	47	94	U	1,2,4-Trimethylbenzene	47	94	U
Dichlorodifluoromethane	47	94	U	1,2-Dibromo-3-chloropropane	47	94	U
Ethylbenzene	47	94	U	1,2-Dibromoethane	47	71	U
Freon-113	47	94	U	1,2-Dichlorobenzene	47	94	U
Hexachlorobutadiene	47	94	U	1,2-Dichloroethane	47	71	U
Isopropl benzene	47	94	U	1,2-Dichloropropane	47	71	U
m,p-Xylene	47	94	U	1,3,5-Trimethylbenzene	47	94	U
Methyl-tert-butyl ether (MTBE)	47	71	U	1,3-Dichlorobenzene	47	94	U
Methylene chloride	236	472	U	1,3-Dichloropropane	47	94	U
Naphthalene	47	94	**51 J**	1,4-Dichlorobenzene	47	94	U
n-Butylbenzene	47	94	U	2,2-Dichloropropane	47	94	U
n-Propylbenzene	47	94	U	Methyl ethyl ketone	472	944	U
o-Xylene	47	94	U	2-Chlorotoluene	47	94	U
sec-Butylbenzene	47	94	U	2-Hexanone	472	944	U
Styrene	47	94	U	4-Chlorotoluene	47	94	U
tert-Butylbenzene	47	94	U	4-Isopropyltoluene	47	94	U
Tetrachloroethene	47	94	U	4-Methyl-2-pentanone	472	944	U
Tetrahydrofuran	236	472	U	Acetone	472	944	U
Toluene	47	94	U	Benzene	47	94	U
trans-1,2-Dichloroethene	47	94	U	Bromobenzene	47	94	U
trans-1,3-Dichloropropene	47	94	U	Bromochloromethane	47	94	U
Trichloroethene	47	94	U	Bromodichloromethane	47	71	U
Trichlorofluoromethane	47	94	U	Bromoform	47	71	U
Vinyl chloride	47	94	U	Bromomethane	47	94	U
Xylenes (total)	47	94	U	Carbon Disulfide	47	94	U
1,1,1,2-Tetrachloroethane	47	94	U	Carbon tetrachloride	47	94	U
1,1,1-Trichloroethane	47	94	U	Chlorobenzene	47	94	U
1,1,2,2-Tetrachloroethane	47	71	U	(TIC) n-Heptane	NA	NA	NF
1,1,2-Trichloroethane	47	71	U	(TIC) n-Hexane	NA	NA	NF

Surrogate Standard Recovery

Bromofluorobenzene	88%	d4-1,2-Dichloroethane	87%	d8-Toluene	88%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis was conducted according to: Test Methods for Evaluating Solid Waste, SW-846 Method 8260B. Results between the LOD and LOQ are reported as estimated (J flag). Difficult compounds and laboratory contaminants are not reported below the LOQ

COMMENTS: Results are expressed on a dry weight basis. TIC=Tentatively Identified Compound. NF=Not Found using NIST library search criteria.

set2Column2TierWTICs:Res(0):Rec(0) - Inspectorate_OIL_2Tier_wTICS

Authorized signature

INSPECTORATE
A Bureau Veritas Group Company

Chain of Custody Form

Project #: Sprague Energy 4101-11-01 → project # per N. Anderson JSB 4/5/11
IAC Office:
IAC Job No.:
Terminal:
Samples iced: Yes No
Analysis: **EPA 8260B/5035**
Matrix: **Organic**
Preservation: **Methanol**

Sprague Energy is project name

Sample No	Sample Date	Sample Time	Tank No.	Sampled By	Product Grade	Sample Type
2011-020-00311-003	4/5/11	1400	2	KMP	PG 58-28	Spigot
2011-020-00311-006	4/5/11	1330	5	KMP	PG 64-28	"
2011-020-00311	4/5/11	1430	8	KMP	PG64-22	"

69464-1
2
3

*container states 2011-020-00311-008 JSB 4/5/11

Sprague Representative: Tom Tang
Date/Time: 4/5/11

Relinquished by: [signature]
Date/Time: 4/5/11 1515

Received By: [signature]
Date/Time: 4/5/11 1515

Samples were @ 4°C

ANALYTICS SAMPLE RECEIPT CHECKLIST

analytics environmental laboratory LLC

AEL LAB#: 69464
CLIENT: Inspec
PROJECT: Sprague Energy

COOLER NUMBER: Clients cooler
NUMBER OF COOLERS: 1
DATE RECEIVED: 4/5/11

A: PRELIMINARY EXAMINATION:

DATE COOLER OPENED: 4/5/11

1. Cooler received by(initials): JBB — Date Received: 4/5/11

2. Circle one: ~~Hand delivered~~ (If so, skip 3) — Shipped

3. Did cooler come with a shipping slip? Y (N) NA

3a. Enter carrier name and airbill number here: _____

4. Were custody seals on the outside of cooler? Y (N)
How many & where: _____ Seal Date: _____ Seal Name: _____

5. Did the custody seals arrive unbroken and intact upon arrival? Y (N) NA

6. COC#: _____

7. Were Custody papers filled out properly (ink,signed, etc)?	(Y)	N
8. Were custody papers sealed in a plastic bag?	Y	(N)
9. Did you sign the COC in the appropriate place?	(Y)	N
10. Was the project identifiable from the COC papers?	(Y)	N
11. Was enough ice used to chill the cooler? (Y) N — Temp. of cooler:		4°C

B. Log-In: Date samples were logged in: 4/7/11 By: JG

12. Type of packing in cooler(bubble wrap, popcorn)	(Y)	N
13. Were all bottles sealed in separate plastic bags?	(Y)	N
14. Did all bottles arrive unbroken and were labels in good condition?	(Y)	N
15. Were all bottle labels complete(ID,Date,time,etc.)	(Y)	N
16. Did all bottle labels agree with custody papers?	Y	(N) - see COC
17. Were the correct containers used for the tests indicated:	(Y)	N
18. Were samples received at the correct pH?	Y	N (R)
19. Was sufficient amount of sample sent for the tests indicated?	(Y)	N
20. Were all samples submitted within holding time?	(Y)	N
21. Were bubbles absent in VOA samples?	Y	(N) NA

If NO, List Sample ID's and Lab #s: _____

22. Laboratory labeling verified by (initials): CP Date: 4/7/11

2011-020-00311-006

Whiteboard ID: 0020-0003731

1100140176

Sample From: **Tank 5**

ShoreTank Spigot Sample Sprague Avery Lane - EPA Sampling

Product :

PG64-28 ASPHALT

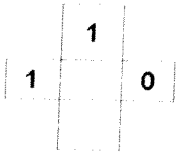
Vessel: SHORE TANK 2 - SHORE TANK 3 - SHOR

Terminal: SPRAGUE AVERY LANE

Date Received: **04/05/2011**

Retain Period: 120

Container Type: Vial



UN# 1999

kipp.powell

2011-020-00309-001

Whiteboard ID: 0020-0003729

1100137769

Sample From: **201**

SPIGOT SAMPLE

Product :

PG64-28 ASPHALT

Vessel: Shore Tank 201

Terminal: SPRAGUE ROLLING MILLS

Date Received: **04/04/2011**

Retain Period: 120

Container Type: Vial

UN# 1999

mark.bickford

2011-020-00311-008

Whiteboard ID: 0020-0003731

1100140178

Sample From: **Tank 8**

ShoreTank Spigot Sample Sprague Avery Lane - EPA Sampling

Product :

PG 64-22 Asphalt

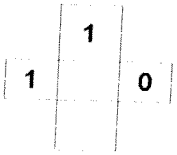
Vessel: SHORE TANK 2 - SHORE TANK 3 - SHOR

Terminal: SPRAGUE AVERY LANE

Date Received: **04/05/2011**

Retain Period: 120

Container Type: Vial



UN# 1999

kipp.powell

2011-020-00311-009

Whiteboard ID: 0020-0003731

1100140179

Sample From: **Tank 9**

ShoreTank Spigot Sample Sprague Avery Lane - EPA Sampling

Product :

PG 64-22 Asphalt

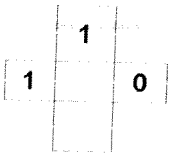
Vessel: SHORE TANK 2 - SHORE TANK 3 - SHOR

Terminal: SPRAGUE AVERY LANE

Date Received: **04/05/2011**

Retain Period: 120

Container Type: Vial



UN# 1999

kipp.powell

2011-020-00311-003

Whiteboard ID: 0020-0003731

1100140173

Sample From: **Tank 2**

ShoreTank Spigot Sample Sprague Avery Lane - EPA Sampling

Product :

Vessel: SHORE TANK 2 - SHORE TANK 3 - SHOR
Terminal: SPRAGUE AVERY LANE
Date Received: **04/05/2011**
Retain Period: 120
Container Type: Vial

	1	
1		0

UN# 1999

kipp.powell

2011-020-00317-001

Whiteboard ID: 0020-0003737

1100138615

Sample From:

TANK 3 EPA SPRAGUE

Product :

#6 Fuel Oil

Vessel: EPA SPRAGUE - Tank 3
Terminal: INSPECTORATE SEARSPORT
Date Received: **04/04/2011**
Retain Period: 120
Container Type: Plastic Vial

	2	
1		0

UN# 1202

connie.lane

From: "Anderson, Nina" <Nina.Anderson@inspectorate.com>
Subject: **RE: COC/Sprague Energy Project No:. 4101-11-01**
Date: April 12, 2011 1:07:50 PM EDT
To: "Casey Payne" <cpayne@analyticslab.com>
Cc: "Jaci Bergeron" <jbergeron@analyticslab.com>
▶ 1 Attachment, 3.9 KB

I apologize I am still awaiting a response from our South Portland office because I don't understand the -008. However, in the interest of moving things along please record the following change:

For the sample received on 04/05/2011 the COC should read as follow: 2011-020-00311-008.

Kind Regards,

Nina Anderson

Compliance Specialist, U.S. O&P Laboratories
Inspectorate America Corporation –
Oil & Petrochemical Division

12000 Aerospace Ave., Suite 200
Houston, TX 77034-5576
Phone: (713) 948-5127
Fax: (713) 947-0300
Cell: (832) 657-4071

E-Mail: nina.anderson@inspectorate.com

Website: www.inspectorate.com

From: Casey Payne [mailto:cpayne@analyticslab.com]
Sent: Tuesday, April 12, 2011 12:00 PM
To: Anderson, Nina
Cc: Jaci Bergeron
Subject: Re: COC/Sprague Energy Project No:. 4101-11-01

Hi Nina,

For the samples from 04/05/11 there are still unaddressed sample name issues:

The COC reads 2011-020-00311 but the container states "2011-020-00311-008" , which is correct?

All Inspectorate services are rendered in accordance with the applicable Inspectorate General Terms and Conditions of Business available on request and accessible at: http://www.inspectorate.com/terms_and_conditions/

Thank you for your cooperation.